

HTML 5

- Introduction to H T M L
- Colors, Gradients
- Interstyle sheet
- External style sheet
- Inline style sheet
- Table,Form,Pair styles
- Multi Column Layout
- Media Queries
- Shadow Effects
- Border Properties
- Transformation (2D , 3D)
- Transitions
- Animations
- Form Input Tags - Email, Color, Number, Date,URL, Range
- New Form Attributes
- Web Storage
- HTML5 Geo Location
- HTML5 Drag & Drop
- Meta tags

CSS 3

- Introduction to Style Sheets, Syntax.
- Background Properties
- Text Properties, List Properties
- Hyperlink Tag Properties
- Psuedo Classes, Psuedo Elements
- Text Properties
- Multimedia Tags.
- Linking Tag,
- List Properties
- Font styles
- Forms
- Frames
- Tables
- New Media Tags(Audio, Video)
- New Markup Elements - Address, article, base, figure – details, header, nav, footer - section tags.
- Canvas and SV G Tags

JAVASCRIPT

- Introduction to JavaScript.
- ses, Syntax, Comments
- Printing Statement
- Variables
- Operators
- Printing statements
- Conditions (if ifelse else if, Switch)
- Loops(while dowhile for)
- Arrays
- Functions (String , Date, Math)
- User Defined Functions
- Browser Compatibility
- Events, Cookies
- Dialog Boxes
- Page Redirection
- Form Validation
- Error Handling
- Regular Expressions
- Web Page, Website
- URL, Domain, Hosting
- Static Pages Vs Dynamic Pages

CORE PYTHON

- Python Overview
- What is Python?
- The Birth of Python
- History
- Features
- Versions
- Applications of Python The Python Environment
- Installation of Python
- Python Documentation
- Getting Help
- How to develop python applications
- Python Editors and IDE's
- Basic Syntax
- Running a Python Script

- Getting Started
- Variables, assign values to variables
- Multiple assignments
- Space Indentation
- Quotes, Comments
- Print(),Type(), Id()
- Functions Input()
- Raw input() functions
- How to read the data from keyboard
- Type conversions
- Number systems
- Mutable and Immutable Object
- String Handling**
- What is String?
- Single-quoted string literals
- Triple-quoted string literals
- String Indexing, String Slicing
- String Functions
- String Methods Operators
- Assignment operators
- Short Hand Assignment operators
- Bitwise Operators
- Membership Operators
- Looping Statements - while, for, infinite, nested • Break
- FLOW CONTROL**
- Conditional Statements - Simple if, if...else, if...elif...
- Looping Statements - while, for, infinite, nested • Break
- Continue • Pass
- SEQUENCES**
- Creating list
- Accessing/deleting/updating list elements • Indexing
- Slicing and matrix
- List comprehension

- Tuples: what is tuple, creating
- Accessing/deleting/updating tuple elements
- Indexing, slicing and matrix
- Built-in tuple functions and methods

DICTIONARIES & SETS

- Set: what is Set, creating Set
- Built-in set function
- Built-in set functions

DICTIONARY

- Creating dictionary
- Accessing/deleting/updating dictionary elements
- Working with built-in dictionary
- Functions and methods
- Dictionary comprehension

ADV PYTHON

MODULES

- What is a module?
- Creating user defined module
- Setting path
- The import statement
- Module search path
- From ... Import
- Module Aliases
- Dir function
- Working with Standard modules -Math, Random - Date and time - Os and sys, String,...

ERRORS & EXCEPTION

HANDLING

- Syntax Errors
- What is Exception?
- Need of Exception handling
- Predefined Exceptions
- Hierarchy
- Except, try, finally clause
- Handling Multiple Exceptions
- User defined Exceptions
- Raise
- Assert statements

FILE HANDLING

- Opening a file
- Closing a file
- Writing data to files
- Reading a data from files
- Tell() • Seek()

OOPS CONCEPTS

- About OO programming
- Defining Classes
- Creating object
- Class methods and data
- Static methods
- Private method
- Constructors
- Destructors • Inheritance
- Types of inheritances
- Polymorphism • Over loading & over riding
- Data hiding

REGULAR EXPRESSIONS

- What is regular expression?
- Wild card characters
- Forming regular expressions
- Character classes
- Quantifiers
- Greedy matches
- Grouping, Match, Search functions
- Matching v/s searching
- Sub function splitting a string
- Replacing text
- Flags

MULTI THREADING

- Defining / Starting a thread
- Threading module
- Threads synchronization
- Multithreaded priority queue

DATABASE ACCESS

- Basics of database
- Connections
- Executing queries
- Transaction management

ADVANCED CONCEPTS

- Iterators
- Generators
- Closure
- Ddecorator

ADVANCED MODULES

- Math's and sciences
- Numpy - Matplotlib
- Data analysis (pandas)

DJANGO

Introduction about Web-application

- What is web application
- Architecture of web application
- What are the Requirements to Design a web application

Introduction about Framework:

- What is Framework
- What are the advantages of Framework
- List of python web related Frameworks

Introduction about Django:

- What is Django
- History of Django
- What are the Features of Django
- Introduction to MVT Design pattern
- Architecture of Django

Django Environment setup:

Working with Django framework what are the pre-requisites we are needed.

- Python
- IDE's
- Virtual Environment
- Django

Structure of the project:

- How to create a project
- Describe project structure
- How to create a application for project

View:

- what is view
- what is Http
- what is HttpRequest
- what is HttpResponse
- what are HttpRequest methods
- what are the difference between GET () and Post()

Template:

- what is template
- what is variable
- what is template tag
- what are the available template

- languages,
- what is filter

Model:

- what is model
- what are the available fields
- in model
- what is relationship
- types of relationships

Migrations in Django:

- what is migration
- what are the reason to create migration
- how create migration

Django ORM

- what is ORM,
- Performing CURD operations
- database access through managers
- what is Query Set
- what is lookup
- what are the available Django Field
- lookups
- **Django Admin:**
- how to communicate Django
- Adminsite
- how to create our own Adminsite
- how to add our model into Django
- Adminsite
- how to customizing Django
- Adminsite

REACT JS

Module 1: Prerequisites of Reactjs

- Es6
- Let, const keywords and Block Scope
- Template literals
- Rest Parameters and Spread Operators
- Object Literals, Object Constructors and Function
- Classes • Inheritance
- Static Properties and Methods

- Iterators and Iterables

- Introduction to Bable

Module 2: Reactjs Basics.

- Introduction to React
- Uses of React
- First react application in online
- Installing Reactjs
- Working With React.render
- Application folder structure

Module 3: Introduction to J S X and it's working

- Working with React. Create
- Attributes in J S X
- Children in J S X
- J S X in Depth

Module 4: Working with Elements

- Introduction to elements
- Rendering elements into DOM

Module 5: Reactjs Components and Props

- Introduction to Components
- Types of components
- Function Component
- Class Component
- Providing default values to props using default props
- Validating props using prop

Module 6: Understanding State and Component Lifecycle

- Uses of State
- Read state and set state
- Working with Component LifeCycle

Module 7: Events and Event Handling

- Difference Between Javascript Event Handling and Reactjs Event Handling
- Working with Event Handling
- Passing arguments to event handlers

Module 8: Working with Conditional Rendering

- Conditionally rendering a part of component
- Preventing Components from

Rendering Module 9: Rendering

- List and using keys

- Rendering Collection of values
- Working with keys for stable identity

- Using map method in JSX

Module 10: Working With forms

- HTML Form submission V/s Controlled components
- Uncontrolled components
- Significance to defaultValue Prop

Module 11: Working with Portals

- Usage of Portals
- Bubbling Through portals boundaries

Module 12: Understanding error boundaries

- Introduction to error

Module 13: React Hooks:-

- useState Hook
- useEffect Hook
- useContext Hook
- useReducer Hook
- useState Vs useReducer
- useCallback
- useMemo
- useRef
- Custom Hooks

Module 14: React Material UI

- Introduction to React Material UI
- Typography • Button, Button Group, Toggle Button
- Text field, Select, radio button, checkbox
- switch, rating, Autocomplete
- Box, Stack, Grid, Paper
- Card, Accordion, ImageList
- navbar, Menu, Link, Breadcumbs
- Drawer, Speed Dial
- Bottom Navigation, Avatar
- Badge, List, Chip, ToolTip
- Table, alert, Snackbar
- Dialog, Progress, Skeleton
- Loading Button, Date and time
- Date Range Picker, Tabs
- Timeline, Masonry
- Responsiveness, Customizing

Module 15: Routing With react router

- Setting up react router
- Understand routing in single page applications
- Working with nested routes

Module 16: Just Redux

- Introduction to redux
- Uses of redux • Redux principles
- Install and setup redux

Module 17: Working with Immutable.js

- Immutable.js for immutable datastructures

Module 18: React Redux

- Introduction to React Redux
- Uses of React Redux
- Install and setup
- Understanding mapStateToProps and mapDispatchToProps usage

Module 19: Redux Saga (Redux middleware)

- Uses of redux middleware
- What is redux saga
- Install and setup redux saga
- Working with Saga helpers

Module 20: Server-side rendering

- What is server-side rendering (SSR)?
- Why SSR methods

Module 21: Testing in react

- Understand the significance of unit testing
- Understand unit testing jargon and tools
- Unit testing react components with enzyme
- Using sinon to mock

Module 22: Webpack

- What is webpack
- Why webpack
- Install and setup webpack
- Working with webpack configuration
- Working with loaders

- Setting up Hot Module

ANGULAR

What is Angular?

- Introduction
- AngularJS vs Angular
- Setup for local dev environment

Angular Architecture

- Building Blocks of Angular Appln
- Angular Modules
- @NgModule decorator
- Angular Libraries
- Component
- Templates
- Metadata
- DataBinding
- Directives
- Services

Displaying Data using Templates

- About Directives
- Components Properties
- Interpolation
- Built-In Directive - o ngIF, o ngFor, o ngSwitch
- Create class for data (Model object)

Template Expressions

- Working with Arrays
- External HTML Template File

Data Binding

- Binding properties
- Interpolation
- One-way / Property Binding
- Event Binding
- Two-way binding with NgModel
- Attribute Binding
- Style Binding
- Class Binding Styles Binding In Components
- Style & Class Bindings
- Built-In Directives - NgStyle & NgClass
- Using Component

Styles Binding In Components

- Style & Class Bindings
- Built-In Directives - NgStyle & NgClass

- Using Component Styles
- Special selectors
- Loading Styles into Components
- Advanced Component Features
- Components Life Cycle Hooks.

Template Driven Forms

- Introduction
- Initial form layout
- Bind data properties - ngModel
- Add name attribute
- Add custom CSS
- Show/hide error messages
- Form submission - ngSubmit
- Disable the form's submit
- Resetting the form

Reactive Forms

- Reactive Forms Introduction
- Form Control Properties
- setValue & patchValue
- Validating Form Elements
- Submitting & Resetting forms
- Observing & Reacting to Form Changes
- Using FormBuilder Pipes
- Built-in Pipes
- Custom Pipes
- Pipes and Change Detection
- Pure and Impure pipes
- Custom Directives
- Custom Attribute Directive
- HostListener
- HostBinding
- Custom Validator Directiv
- Dependency Injection
- Dependency Injection
- DI in Angular Framework
- Reflective Injector
- Exploring Provider
- Types of Tokens
- Types of Dependencies
- Configuring DI using Providers
- Implementing DI in Angular
- Optional Dependencies
- Introduction Type script
- Limitation of JavaScript
- What is Typescript.
- Benefits of TypeScript

- Setup the Environment
- First Typescript code

Basic Types

- Primitive types (number, string, boolean)
- Arrays and tuples
- Enumerations
- Type inference

Datatypes

- Basic Data Types
- String and Templated String
- Arrays • Tuple • Enum
- any and void
- null and undefined
- Type Inference
- Type Casting

- Difference between let and var • Const declaration
- for...of vs for...in statement

OOPS

- Writing and Using Classes
- Constructor method
- Inheritance of classes
- Type casting
- Type Assertion
- Static Properties
- Abstract class
- Interface having Optional Property

Advanced Types

- Union and intersection types
- Type guards
- Type aliases
- Type assertions

Interfaces

- Interface Declaration & Initialization
- Interface Implementation by
 - Class extending another class
- Implementing an Interface
- Extending Interfaces

Function Types

- Optional and Default Parameters
- Rest Parameters
- Function Overloading

- Function Types

Modules

- Understanding modules
- Import and export statements
- Module resolution strategies

Generics

- Introduction to generics
- Generic functions
- Generic classes
- Constraints on generics

Namespaces

- Introduction
- Syntax with Example
- Compiling multiple TS files into single JS file

BOOTSTRAP

Introduction to Bootstrap

Bootstrap Package

- Download and Installing
- File structure, Bootstrap template

Bootstrap Grid System

- Grid, Bootstrap Grid System
- Mobile FIRST STRATEGY
- Bootstrap Grid System
- Media Queries

Grid Options

- Responsive Column resets - Offset /
- Nested columns
- Column ordering
- Creating Layouts

Bootstrap CSS

- HTML5 Doctype - Responsive
- Images – Containers

Bootstrap Typography

- Headings, Inline sub headings -
- Emphasis, Abbreviations - Addresses,
- Block quotes, Lists

Bootstrap Tables

- Basic table, Optional table classes
- Stripped / Bordered / Hover table
- Condensed / Responsive tables

Bootstrap Forms

- Form layout, Vertical/Basic form
- Inline / Horizontal form
- Selects, Form Control states
- Form Control Sizing, Help text

Bootstrap Buttons

- Button Size / State - DISABLED State
- Buttons tags

Bootstrap Images

- img-rounded
- img-circle, img-thumbnail

JQuery

- Introduction, jQuery Elements
- I D selector, Class selector
- Declaring Button/Fade actions
- Fade actions Properties
- Declaring Slide actions
- Slide actions Properties
- Declaring Load Method actions
- Load Method actions Properties
- Declaring Slideshow images
- Animation Properties
- Declaring Text Effects
- Text Effects Properties
- CSS properties, Creating Web Gallery

TESTING

- Intro to S/W testing (definition, purpose)
- Types of testing
- SDLC (Models to be followed for testing)
- Software testing life cycle
- (test plan preparation, test scenarios)
- Writing test cases in excel (as per company format) or in Jira
- Test results (Defect report preparation)

Enq No: _____

Enquiry Details



Fee : _____ Demo on : _____ Faculty : _____ Batch Start : _____

OTHER COURSES OFFERED



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